

The Files

25 February 1957

25X1

Transmitter Adapter TA-1

1. The Transmitter Adapter TA-1 was modified where practical as requested in Memorandum dated 19 February 1957 (Subject - Cursory Evaluation of the Transmitter TA-1). The unit was returned to the A&A Section, R&D Laboratory for further evaluation.

2. A physical inspection of the Transmitter TA-1 indicates that the unit is acceptable.

3. An electrical test of the Transmitter TA-1 coupled to an ac receiver (RCA Model 6, RF-9) provided the following information.

- (a) The calibration under loaded conditions is fair, but it is good on tune position.
- (b) Hand effects are noticeable when tuning the transmitter.
- (c) During normal operation the bfo is on at all times. This condition interferes with the reception of modulated transmissions.
- (d) The power output of the Transmitter Adapter TA-1 was measured and the results are presented in tabular form.

TA-1 POWER OUTPUT

Freq. MCS	72.5 Ohms Po.(Watts)	152 Ohms Po.(Watts)	313 Ohms Po.(Watts)	558 Ohms Po.(Watts)	1230 Ohms Po.(Watts)
	3.5	3.52	3.65	3.75	3.72
	3.64	3.9	3.78	3.75	4.14
	3.5	3.22	3.65	3.94	3.35
	1.58	1.75	1.64	1.52	1.77
	1.76	2.45	2.1	2.0	2.27
	1.32	1.68	1.64	1.78	1.87
	1.32	1.65	1.44	1.65	1.59

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AC Input - 120V/AC
Receiver - RCA Model 6, RF-9
Oscillator Tube - 6V6

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4. RECOMMENDATIONS: The Transmitter TA-1 is considered to be an acceptable prototype. The undesirable characteristics of the Transmitter TA-1 listed under paragraph 3 (a), (b), and (c) should be corrected as much as practical or possible in future models.



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Lab/JFS/rkb (25 February 1957)

Distribution:

Original - Addressee

1 - Design Files

1 - Dev/s